

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 31, 32, 33, 34, 35, 36, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s); and to import such byproduct and source material. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee

1. Interlake, Incorporated

2. 10730 Burley Avenue
Chicago, Illinois 60617

3. License number 12-16147-03

4. Expiration date July 31, 1985

5. Docket or
Reference No.6. Byproduct, source, and/or
special nuclear material

A. Cesium-137

B. Americium-241

7. Chemical and/or physical
formA. Sealed sources (General
Radioisotope Products
Model No. 850233 or 6082,
Gamma Industries Model No.
VD or NEN Model No. NER-
570)B. Sealed sources (Monsanto
Research Corporation
Model No. MRC-N-SS-W-Ambe,
General Radioisotopes
Products Model No. 7022
or NEN Model No. NER-550)8. Maximum amount that licensee
may possess at any one time
under this licenseA. 2 sources not to exceed
1000 millicuries eachB. 2 sources not to exceed
500 millicuries each

9. Authorized use

- A. To be used in Kay-Ray, Inc. Model 7051 source holders for material density measurement.
- B. To be used in Kay-Ray, Inc. Model 7100 source holders for measurement of moisture in coke.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities at 10730 Burley Avenue, Chicago, Illinois.

8011120369

CONTROL NO. 7 9287

MATERIALS LICENSE

Supplementary Sheet

License Number 12-16147-03

Docket or
Reference No. _____

Continued from Page 1

CONDITIONS

11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision of, J. Zbos.
13. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.
14. A. (1) Each sealed source shall be tested for leakage and/or contamination at intervals not to exceed three years. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.

(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.

B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.

C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region III, Office of Inspection and Enforcement, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, describing the equipment involved, the test results, and the corrective action taken.

D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

MATERIALS LICENSE

Supplementary Sheet

License Number 12-16147-03

Docket or
Reference No. _____

Continued from Page 2

CONDITIONS

15. Installation, relocation, maintenance, repair, and initial radiation survey of devices containing licensed material and leak testing, installation, replacement, and disposal of sealed sources containing licensed material used in devices shall be performed only by the manufacturer or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
16. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6., 7., and 8. of this license in accordance with statements, representations, and procedures contained in application dated May 5, 1980. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

JUL 2 1980

Date _____

For the U. S. Nuclear Regulatory Commission

John W. Cooper
by _____
Material Licensing Branch

Division of Fuel Cycle and
Material Safety
Washington, D.C. 20555